ABSTRACT OF THE DISCLOSURE

In a method for determination of patient-related information regarding the position and orientation of slice image exposures in magnetic resonance tomographic examinations, initial MR overview exposures (magnetic resonance overview exposures) of the body of the patient are produced. Using these initial MR overview exposures, a predetermined, parameterized anatomical body model (i.e. an anatomical body model) with specific variable model parameters is then individualized (customized). The determination of the patient-related information about the position and orientation of the subsequent (diagnostic) slice image exposures then ensues on the basis of the relative position of the slice image exposures with regard to the individualized body model. In the individualization, by variation of the model parameters the body model is adapted to specific structures determined from the initial MR overview exposures, which specific structures advantageously represent the body surface of the patient. The individualization process thereby corresponds to a mathematical optimization problem. Those values of the variable model parameters are determined that minimize a deviation measure of the model relative to the structures from the overview exposures.